



## HYGIENIC BALL VALVES M3H TRUE BORE (21/2" – 4" ASME BPE)

## DESCRIPTION

M3H three piece body ball valves are isolating valves designed for use with clean steam, condensate and other gases and liquids used in high purity and aseptic processes.

The valve is not designed as a control valve and should only be used as an isolating valve, fully open or fully closed.

The product is mainly designed for the pharmaceutical, biotech, semiconductor, cosmetics, fine chemical, food and beverage industries.

## MAIN FEATURES

True bore floating ball design. A351 CF3M body and ends with ferrite content of less than 2% and low sulphur between 0,005 and 0,017%. Can be serviced without removal from pipeline. Bidirectional. Anti blow out proof stem. ISO 5211 mounting.

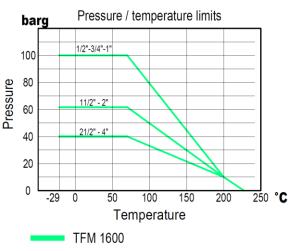
STANDARD SURFACE FINISH Internal wetted parts: ≤ 0,51 micron Ra – SF1. External: as casted. Ultrasonic cleaning.

INSTALLATION: S	Assembling and packaging in a clean room certified according to ISO 14644-1. The product is end capped and sealed with ecyclable thermo-shrinkable plastic film, to avoid contamination. See IMI, installation and maintenance instructions.
	Assembling and packaging in a clean room
PACKAGING: A	
T	According to ASME BPE. FC – Sanitary clamps. ETO – Extended tube orbital welding. FC / ETO – Combination.
	M3H – Investment casting. 21/2" to 4".
USE:	Antistatic device. Different sealing materials. Degreased for oxygen use. Tube weld with loose body flanges 360° rotation after installation). Cavity filler. Clean steam, gases and liquids compatible vith the construction.

CE MARKING (PED – European Directive)						
PN40	Category					
21/2" to 4"	1 (CE marked)					







Working pressure may be limited by the valve connections.

We reserve the right to change the design and material of this product without notice.



MATERIALS										
POS. №	DESIGNATION	MATERIAL								
1	Valve body	CF3M / 1.4409								
2	TC end connection	CF3M / 1.4409								
3	Tube weld end connection	CF3M / 1.4409 (integral)								
3	Tube weld end connection	AISI 316L / 1.4404 (360° rotation)								
4	*** Flange	AISI 316L / 1.4404								
5	Stem	AISI 316L / 1.4404								
6	* Valve ball	AISI 316L / 1.4404								
7	* Standard seat	TFM 1600								
8	* Cavity filler seat	TFM 1600								
9	Body ring	AISI 316L / 1.4404								
10	* Body seal	PTFE								
11	* Stem seals	TFM 1600								
12	* Spacer	AISI 316 / 1.4401								
13	Handle	AISI 304 / 1.4301								
14	Handle end	Vinyl								
15	* Spring washers	AISI 304 / 1.4301								
16	Compression nut	AISI 304 / 1.4301								
17	* Lock washer	AISI 304 / 1.4301								
18	Fixing bolt	AISI 304 / 1.4301								
19	Stop pin	AISI 304 / 1.4301								
20	Handle stopper	AISI 304 / 1.4301								
21	** Antistatic device	AISI 316 / 1.4401								
22	O-ring	Viton								

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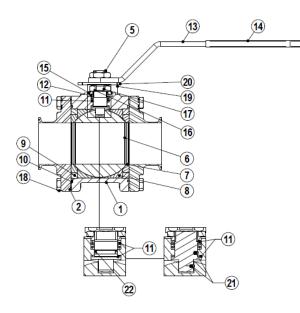


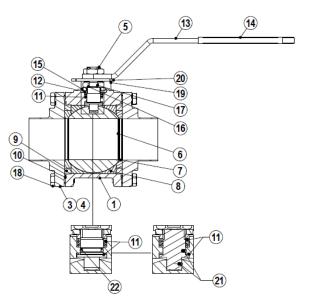
\* Available spare parts; \*\* On request.

\*\*\* Loose flange only applied on the  $360^{\circ}$  rotation optional version.

FDA / USP Class VI seals certificate on request.

All valves have a serial number. In case of non standard valves this number must be supplied if spare parts are ordered.





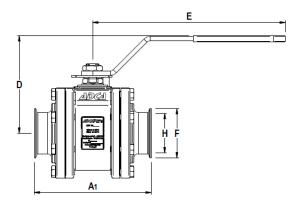
VALSTEAM JDCJ

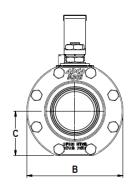
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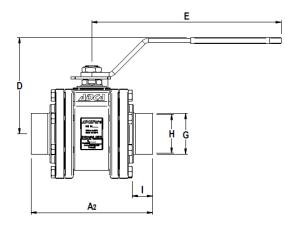


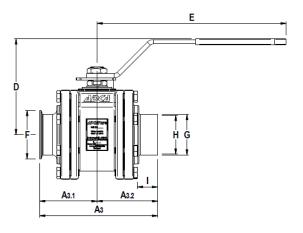


DIMENSIONS (mm) ASME BPE																
SIZE	<b>A</b> 1	<b>A</b> 2	Аз	<b>A</b> 3.1	<b>A</b> 3.2	в	с	D	Е	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
21/2"	190	203	196,3	95	101,5	160	72,5	169	355	77,5	63,5	60,2	37	60,2	F7	13,3
3"	216	228	222	108	111	180	83,5	180	355	91	76,2	72,9	38	72,9	F7	18,6
4"	254	267	260,5	127	133,5	220	101,5	198	460	119	101,6	97,4	44	97,4	F10	29,6

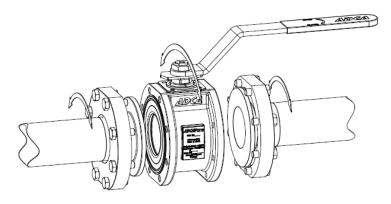












Loose body flanges make it possible to install the valve without aligning of welded end connections. After installation the valve can rotate on 360° for the desired orientation.





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## **ORDERING CODES M3H**

Valve model	МН	•			F	F			СВ		65	
M3H 3 pieces ball valve CF3M	МН											
Lever handle												
Flat lever handle stainless steel / plastic cover			(*)									
Flat lever handle stainless steel / plastic cover w/ lockable system			3									
Bare stem			9									
Material												
CF3M / 1.4409				(*)								
Seat design												
Standard seats					(*)							
Cavity fillers					F							
Seat material												
TFM 1600						F						
Surface finish, special services and opti	ons											
Standard surface finish (mechanical polishing)							(*)					
Electropolishing							1					
Oxygen cleaning							2					
Antistatic device												
None								(*)				
Antistatic device								Α				
End connections												
TC – Sanitary clamps ASME BPE									СВ			
ETO – Extended tube orbital welding ASME BPE (integral, no rotati	ion desig	gn)							ITB			
ETO – Extended tube orbital welding ASME BPE (360° rotation des	sign)								ТВ			
TC / ETO – Combination ASME BPE (integral, no rotation design)									CITB			
TC / ETO – Combination ASME BPE (360° rotation design)									СТВ			
Ball port												
True bore (standard)										(*)		
Full bore										NA		
Size												
21/2"											65	
3"											80	
4"											100	
Special valves / I												
Full description or additional codes have to be added in case of a n	on stand	lard	com	nbina	ation	1						Е

(\*) Ommited if a standard valve is requested. NA – Not available.